

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Applicants:

Dave Draper

Serial No.: 09/996,087

Filed: November 28, 2001

For: Generating Automata for Validating XML Documents,



Date: May 17, 2006

Group Art Unit: 2155

Examiner: Nguyen, Thuong

Docket No: FR920000043US

CERTIFICATE OF MAILING

I hereby certify that the attached correspondence comprising:

a copy of the Priority document for the above referenced patent application.

Return Postcards,

is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Respectfully submitted,

Dr. Louis P. Herzberg
Registration No. 41,500

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is a copy of the Priority document, EP 00480104.9, for the above referenced patent application.

Please charge any fee(s) to enter this paper to Deposit Account No. 50-0510.

Respectfully submitted,

Louis P. Herzberg
Registration No: 41,500

Customer # 54856
Telephone/Fax: (845) 352-3194

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Attestation

Die angehefteten Unterlagen stimmen mit der ursprünglich eingereichten Fassung der auf dem nächsten Blatt bezeichneten europäischen Patentanmeldung überein.

The attached documents are exact copies of the European patent application described on the following page, as originally filed.

Les documents fixés à cette attestation sont conformes à la version initialement déposée de la demande de brevet européen spécifiée à la page suivante.

Patentanmeldung Nr. Patent application No. Demande de brevet n°

00480104.9

Der Präsident des Europäischen Patentamts;
Im Auftrag

For the President of the European Patent Office

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Blatt 2 der Bescheinigung
Sheet 2 of the certificate
Page 2 de l'attestation

Anmeldung Nr.:
Application no.:
Demande n°: 00480104.9

Anmeldetag:
Date of filing:
Date de dépôt: 14/11/00

Anmelder:
Applicant(s):
Demandeur(s):
INTERNATIONAL BUSINESS MACHINES CORPORATION
Armonk, NY 10504
UNITED STATES OF AMERICA

Bezeichnung der Erfindung:
Title of the invention:
Titre de l'invention:

Method of associating multi-lingual audio recordings with objects in an internet presentation system

In Anspruch genommene Priorität(en) / Priority(ies) claimed / Priorité(s) revendiquée(s)

Staat:
State:
Pays:

Tag:
Date:
Date:

Aktenzeichen:
File no.
Numéro de dépôt:

Internationale Patentklassifikation:
International Patent classification:
Classification internationale des brevets:

/

Am Anmeldetag benannte Vertragsstaaten:
Contracting states designated at date of filing: AT/BE/CH/CY/DE/DK/ES/FI/FR/GB/GR/IE/IT/LI/LU/MC/NL/PT/SE/TR
Etats contractants désignés lors du dépôt:

Bemerkungen:
Remarks:
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**METHOD OF ASSOCIATING MULTI-LINGUAL AUDIO RECORDINGS WITH
OBJECTS IN AN INTERNET PRESENTATION SYSTEM**

Technical field

5 The present invention relates to Internet systems enabling to
conduct conferences and presentations by means of charts or
slides accompanied with audio recordings to audiences anywhere
in the world and relates in particular to a method of
associating multi-lingual audio-recordings with visual objects
in an Internet presentation system.

10 **Background**

Today, audiences including thousands of participants in the
world can attend conferences and presentations broadcast by
the Internet network. During such a presentation, the
participant can view visual objects such as charts, slides,
15 images, graphics (generally in PowerPoint) and listen to

prerecorded audio recordings associated with each visual object.

In general, the speaker who is in charge of adding audio comments to the visual object, does not assemble the final deliverable contents but could, via access to the Internet web pages, invoke the assembly process. The assembly is normally done by a third party who has the skills in creating the synchronized objects or an automatic system.

But there are many problems associated with creating a presentation having a synchronized audio recording to the visual objects. Thus, the speaker must have a ready access to equipment like a recording machine, a microphone or a PC with audio support to create the recording. An alternative is to go to a recording studio and to use facilities there, but this is not always immediately available and it is an expensive solution. If the user chooses to use a tape recorder, the third party which receives this media must have a similar equipment available to replay the recording.

Associating the audio recordings with the objects is also a problem. Indeed, the objects to which the audio files are associated, normally follow some sequential numbering scheme. However, there may not be sequential audio recordings due to some objects not requiring audio or the objects are not sequential. The speaker who is the person defining which objects require audio has to provide explicit documentation on the association. Such a manipulation being manually performed, the process can be subject to errors.

Ensuring that each audio recording is correctly associated with the visual objects requires that the people in charge of the association must be familiar with the language used or have very explicit instructions in their native language to correctly associate the audio recordings with the objects. The

third party may be associating more than one language to a single object. If the recording is not pre-edited into segments, it requires editing and therefore an expertise in the language spoken by the speaker is required.

5 Summary of the invention

Accordingly, the main object of the invention is to provide an Internet presentation system enabling the user to make audio recordings associated respectively with the visual objects of the presentation whatever the language used in the audio recording.

The invention relates therefore to a method of associating multi-lingual audio recordings with visual objects in a presentation system accessed by the Internet network wherein a plurality of visual objects such as charts or slides controlled by a third party in a server can be accessed by any user of the Internet network, the visual objects being associated each with an audio recording in any language selected amongst several predetermined languages. Such a method comprises the steps of calling the third party audio recording server by the user in charge of the audio recording associated with a visual object via the Public Switched Network, prompting the user to enter his user ID (which will determine the language of subsequent voice prompts); and transmitting by the keypad of the telephone a user ID including a first part defining a first language to be used for recording the audio recording.

Then, the user can enter his password and proceed to make audio recordings in the chosen language. He selects the chart or object he wants to make a recording for and makes a recording. He can replay that recording at anytime and re-record the audio if not satisfied. On completion of the recordings, the user then initiates an automatic update

process which automatically synchronizes the audio recordings to the visual objects.

Brief description of the drawings

The above and other objects, features and advantages of the invention will be better understood by reading the following more particular description of the invention in conjunction with the accompanying drawings wherein :

- Fig. 1 is a block-diagram representing the general context wherein the invention is implemented.
- Fig. 2 is a block-diagram of the functional means used by the third party to implement the invention
- Fig. 3 is a schematic diagram showing the recording of two audio files in English and in French by the system of the invention.
- Fig. 4 represents a flow chart of the different steps used in the method according to the invention.

Detailed description of the invention

Assuming that the third party responsible for the presentation system has got the charts or slides to be presented to customers connected to the Internet network, a speaker (called the user in the following) has to record audio files each being associated with each chart or slide.

As illustrated in Fig. 1, the user has at his disposal a workstation 10 connected to the Internet network 12 and a telephone set 14 connected to the Public Switched Network (PSN) 16. The third party server 18 including the charts slides or objects in general which can be broadcast to customers by the Internet network 12 is also connected to PSN 16.

Prior to using the presentation system, the user is provided with a user identification number ID, a password and a telephone number (via web pages, e-mail or conversation with the third party). When the user wants to record the audio recordings, he calls the third party server 18. At this time, the user is prompted to enter his ID by means of the keypad on his telephone 14. Note that this voice prompt can be in multiple languages. As illustrated by the block-diagram of Fig. 2, the ID 20 is processed in the server by a processing unit 22 which represents the sophisticated facilities (hardware and software) of the server to control and manage the system.

The ID entered by the user determines the language to be used, the naming convention for the file and the location for the stored recordings. In general the third party has stored the objects for which audio is to be recorded in the same location as that specified by the ID in a directory 23, or the user through an automated process will place the objects into the location specified within the ID. Thus, for example, the ID may contain the number 6666 which is the directory name in which the final recordings are to be stored.

On receiving the ID, processing unit 22 determines the language in which it must prompt the user and the file naming convention it must use to store the audio recordings. For example, the ID could be 366661 meaning that the directory number is 6666 and the language code is 31. Note that the number 31 could be placed at the beginning or at the end of ID entered by the user. With this language code, the processing unit 22 determines in a language table 24, which is the language will be used to prompt the user and the file naming language used for the recording.

When processing unit 22 has determined the language to be used and after the user has entered the number of the visual object

associated with the audio recording, it generates a file number 26 to designate the recording file to be stored in a data base 28. In the example, such a file number could be 6666:engxx wherein 6666 is the directory name, eng corresponds to the language "English" corresponding to language code 31 in table 24 and xx is the number of the chart or slide with which the recording is to be associated.

After that, the user can record the audio recording which is stored in data base 28 in a file having the file number 26 as defined above. The processing unit also writes a flag (one bit) at the end of the file for indicating that it is a new recording which will need to be copied in directory 23. The copying operation is achieved by the processing unit when the user requests an "update" as explained below.

Referring to Fig. 3, it is shown how the language code included in the ID entered by the user is an essential feature of the invention. As a matter of fact, with a first language code, the processing unit determines in the language table that English has to be used for the recording. Using the file naming convention, the processing unit defines a file number 32 for example 6666:engxx. This number is used to record the English recording 34 in a first location of the data base 28. But, assuming that French is now the language to associate with the same chart or slide, a different file number 36, for example 6666:frexx, is defined by the processing unit for the new recording. Then, this number will be used as file number to record the French recording 38, and to store this file into another location of data base 28. Whatever language is used, the different recordings corresponding to the same presentation will be then copied in directory 23 at the location defined by the same directory name, 6666 in the example.

Now, the process according to the invention is described in reference to Fig. 4. After inputting the system (step 40) by calling the third party via the Public Switched Network, the user transmits his user ID (step 42). As explained above, the processing unit of the server determines the language to be used (step 44) and the directory in which the recording has to be copied (step 46). Then, the user has to enter a password (step 48) which is used to determine whether he is a valid user of the ID.

After that, the user has to decide whether he wants to "update" that is to copy recordings already stored from the data base to the directory determined in the ID (step 50). If so, the user is disconnected (step 52). Such a disconnection is necessary since, during the copying process which takes a short time (about 30-45 seconds) the user cannot make any changes to the recordings. If the user calls back immediately, it can be expected that, by the time he has entered the ID and the password, the copying process will be completed. Note that the recordings have a flag which is set to 1 when they are recorded, are reset to 0 after they are copied into the directory so that only the recordings having a flag set to 1 are copied which reduces considerably the work load on the system.

Then, it is determined whether the user has a chart to be recorded (step 54). If not, the connection was only to update the existing recordings and the process is exit (step 56). If there is at least a chart to be audio recorded, the user enters the chart number (step 58). It must be noted that the message to be entered is generally split into 3 parts wherein the chart number can be part 2 followed by instructions or the instructions can be in part 1 and part 3 is a blank recording, depending upon the language which is used.

Generally, at this stage, the user is prompted by the system to know whether he wants to listen to a previous recording or to have a continuous playback of the already recorded audio files (step 60). The feature of continuous playback is to allow the user to hear if there is a continuity between the recordings. This is a valuable productivity aid for the user since he does not have to select the next chart and more valuable when there are multiple recordings since it is a way of easily finding missing recordings in a sequence of recordings. In the latter case, the system states that no recording exists and can prompt the user if he wants to record one.

Then, it is determined whether a recording exists for the chart number entered by the user (step 62). If not, the user is prompted to start the audio recording (step 64) which will be stored in the data base with the file number defined from the ID as previously explained. Again, the user may be requested to listen to the recording or to playback all the recordings (step 66). As the user may be not entirely satisfied with the recording, it is determined whether he wants to make a re-recording (step 68). If not, the process is looped to the beginning before the update (step 50).

Assuming that there is already a recording corresponding to the chart number entered by the user, the same way as previously, it is determined whether the user wants to make a re-recording (step 70). If it is the case or if after recording the audio file, the user is not satisfied (see step 68), the user may start to re-recording (step 72). Again, the user may generally listen to his re-recording or make a continuous playback of the recordings (step 74). Of course, when the user does not want a new recording after the first recording, he does not start re-recording and this step is jumped. Then, the process loops to the beginning before the update (step 50).

It must be noted that the user can all the time have access to the system for returning to the "update" step or change any one of the recordings by calling again the third party, entering the ID and then the password. For practical purposes,
5 there could be a time limit set on access time.

When a recording is changed afterwards, the flag is also set to 1 in the audio file so that only this recording will be copied from the data base to the directory.

When recording an audio file for a chart or slide, the
10 synchronization between this one and the audio recording is automatically achieved. When the chart or slide will be displayed to a presentation participant, it will be displayed during all the time of the audio recording. In other words, the same chart is synchronized with the recordings
15 corresponding to the different languages. However, the presentation has always the option to stop the audio playing or to go quickly to the next chart.

Although the system is used today for producing an audio recording that is associated with a slide or chart, it is not
20 limited to producing audio recordings for only this purpose. Many objects (slides, text, html pages, animation etc.), today require narration or audio, the addition of audio to one of these objects; to enhance the end user experience by being able to see the objects and at the same time have a supportive
25 audio track. So, as technology changes, then this equipment can be used in support of newspaper articles, where you hear the reader etc. Also, as the web moves to encompass those users with physical disabilities, there is a need to produce audio versions of visible text or objects. The system could be
30 used to record these. Similarly, the final delivery medium may not be the Internet, it could be a CD, diskette, be stored on a server and accessed by other means.

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CLAIMS

1. Method of associating multi-lingual audio recordings with visual objects in a presentation system accessed by the Internet network (12) wherein a plurality of visual objects
5 such as charts or slides controlled by a third party in a server (18) can be accessed by any user of said Internet network, said visual objects being associated each with an audio recording in any language selected amongst several predetermined languages ;

10 said method comprising the steps of:
calling said third party server by the user in charge of the audio recording associated with a visual object via the Public Switched Network (16),

15 prompting said user on his telephone (14) to enter his user ID; and

transmitting by the keypad of said telephone said user ID including a first part defining a first language to be used for recording said audio recording,

20 whereby the displaying of said visual object by said workstation will be automatically synchronized with said audio recording.

2. Method according to claim 1, further comprising the step of entering the number of said visual object associated with said audio recording by the user at said telephone (14) after
25 he has transmitted said user ID.

3. Method according to claim 1 or 2, further comprising the step of transmitting a password by the user at said telephone (14) after this one has transmitted said user ID.

4. Method according to claim 3, wherein said user ID
30 includes a second part defining a directory name wherein the file containing said audio recording is stored.

5. Method according to claim 4, further comprising the step of generating by said third party server a first file name including said directory name and a code defining said first language when ID is received by said third party server (18).

5 6. Method according to claim 5, wherein said audio recording in said first language is stored in a data base (28) by using said first file name.

10 7. Method according to claim 6, further comprising the steps of transmitting from said telephone (14) another ID containing a first part defining a second language to be used for recording said audio recording and a second part defining said directory name, and generating by said third party server another file name including said directory name and a code defining said second language.

15 8. Method according to claim 6 or 7, further comprising the step of copying said audio recording corresponding to said first file name from said data base (28) to a directory (23) at said directory name, said step of copying being activated by the user at said telephone (14).

20 9. Method according to claim 8, wherein the file containing said audio recording includes a flag which is set when said audio recording is recorded for the first time or changed and which is reset when said file is copied from said data base (28) to said directory (23).

25 10. Presentation system accessed by the Internet network (12) wherein a plurality of visual objects such as charts or slides controlled by a third party in a server (18) can be accessed by any user of said Internet network, said visual objects being associated each with an audio recording in any language
30 selected amongst several predetermined languages ;

said system comprising a third party server including processing means (22) for receiving a user ID from a user telephone (14), said user ID comprising a first part defining a first language to be used for recording said audio recording
5 whereby the displaying of said visual object by said workstation will be automatically synchronized with said audio recording.

11. System according to claim 10, wherein said third party server (18) comprises a table (24) for determining said
10 language to be used for recording said audio recording from said first part in said user ID.

12. System according to claim 11, wherein said user ID includes a second part defining a directory name, wherein the file containing said audio recording is stored, and further
15 comprising a directory (23) to store said audio recording at a location determined by said directory name.

13. System according to claim 11, further comprising a data base (28) wherein said file containing said audio recording is stored after being recorded.

20 14. System according to claim 12, wherein said file containing said audio recording is copied in said directory (23) after activation of said processing means (22) by the user at said telephone (14).

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METHOD OF ASSOCIATING MULTI-LINGUAL AUDIO RECORDINGS WITH
OBJECTS IN AN INTERNET PRESENTATION SYSTEM

Abstract

Method of associating multi-lingual audio recordings with
5 visual objects in a presentation system accessed by the
Internet network (12) wherein a plurality of visual objects
such as charts or slides controlled by a third party in a
server (18) can be accessed by any user of the network, the
visual objects being associated each with an audio recording in
10 any language selected amongst several predetermined languages.
This method comprises the steps of calling the third party
server by the user in charge of the audio recording associated
with a visual object via the Public Switched Network (16),
prompting the user on his telephone (14) to enter his user ID;
15 and transmitting by the keypad of the telephone the user ID
including a first part defining a first language to be used for
recording the recording, whereby the displaying of the visual
object will be automatically synchronized with the audio
recording.

20 FIG. 1

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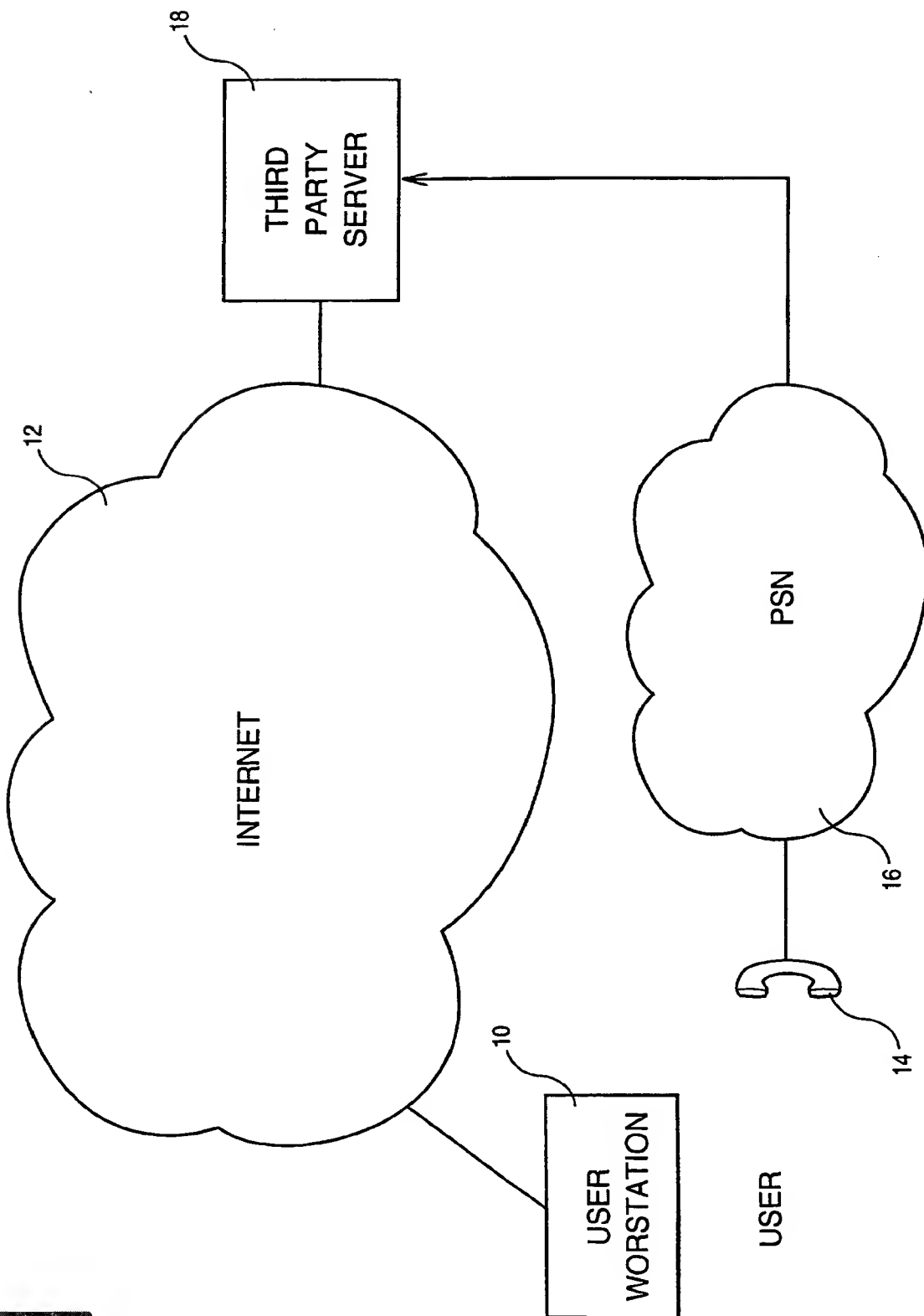


FIG. 1

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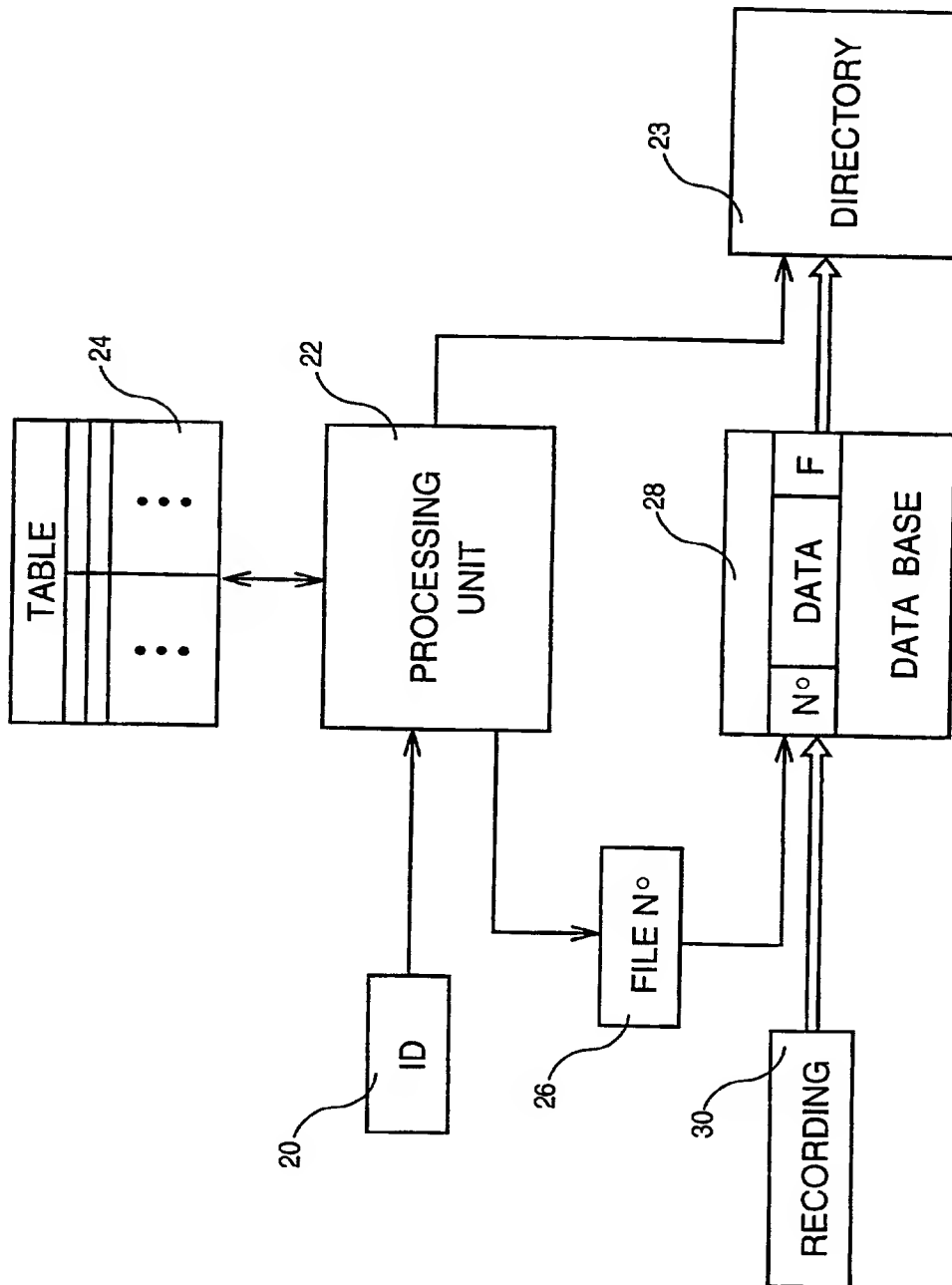


FIG. 2

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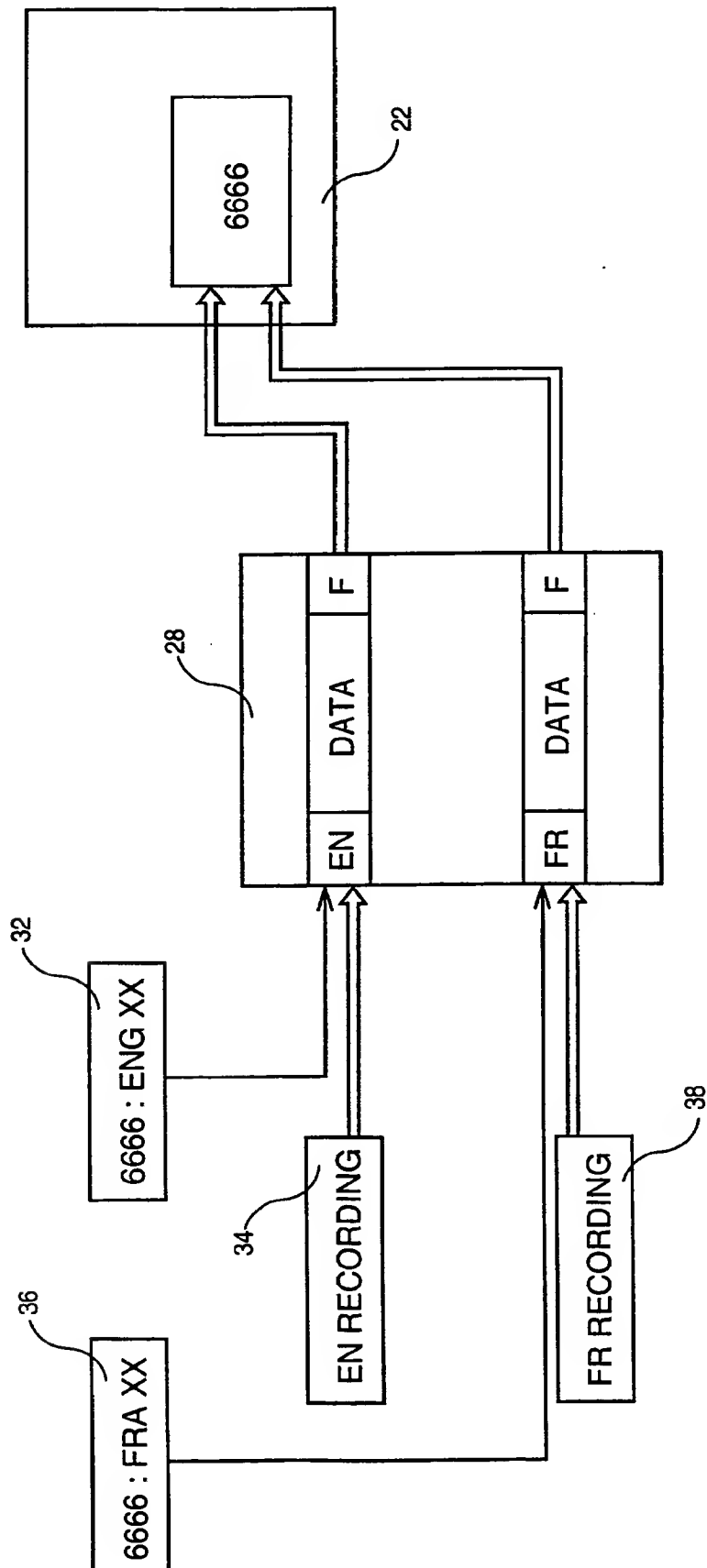


FIG. 3

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